

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006920

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G05B23/02 G05B19/4065

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G05B G05D G07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 523 701 A (SMITH STEPHEN F ET AL) 4 June 1996 (1996-06-04) the whole document	1-5, 8-10
X	EP 0 509 817 A (TEXAS INSTRUMENTS INC) 21 October 1992 (1992-10-21) page 4, line 56 - page 5, line 21 page 7, lines 35-56	1-7
X	DE 38 28 594 A (TOSHIBA MACHINE CO LTD) 9 March 1989 (1989-03-09) column 12, line 49 - column 13, line 10	1-3
A	US 4 464 866 A (KOLELL NORBERT C ET AL) 14 August 1984 (1984-08-14) the whole document	1-10

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

15 November 2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/006920

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5523701	A	04-06-1996	NONE	
EP 0509817	A	21-10-1992	US 5251144 A DE 69212048 D1 DE 69212048 T2 EP 0509817 A1 JP 3553982 B2 JP 6170696 A	05-10-1993 14-08-1996 30-01-1997 21-10-1992 11-08-2004 21-06-1994
DE 3828594	A	09-03-1989	JP 1051264 A JP 1058467 A JP 1087150 A JP 1087151 A JP 1087149 A JP 1087152 A JP 1087153 A JP 1087154 A DE 3828594 A1 KR 9408050 B1 KR 9408088 B1 US 5315789 A	27-02-1989 06-03-1989 31-03-1989 31-03-1989 31-03-1989 31-03-1989 31-03-1989 31-03-1989 09-03-1989 01-09-1994 02-09-1994 31-05-1994
US 4464866	A	14-08-1984	CA 1206758 A1 EP 0088349 A2 JP 58192752 A	01-07-1986 14-09-1983 10-11-1983